ACTIVEVISTA

SLIDING DOOR
END WALL KITS

FOR ACTIVEVISTA CATERPILLAR TUNNELS

ASSEMBLY AND INSTRUCTION MANUAL

ACTIVEVISTA

Regenerative Market Garden Equipment

www.activevista.com.au

Single and Double Sliding Door **End Wall Kit Guide**

Thanks for choosing our purpose designed End Wall add-ons for your Caterpillar Tunnel

Active Vista's Single and Double Sliding Door End Walls are suitable for:

- Gothic Standard and Pro variants
- Cocoon Pro 4.9m and 4.3m width variants

If you have any concerns during the build of your ActiveVista Caterpillar Tunnel system, please contact:

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Overview

Assembly Instructions

Component List

ActiveVista Sliding Door End Wall Kits Include:

Label	Description	Single Door Kit Qty	Double Door Kit Qty
A	Cross-Bracing Pole Kit (retrofit option)	1	1
A1	- Brace Bands for Cross-Bracing Pole	2	2
A2	- Cross-Bracing Pole - 2300mm (1800mm Standard Gothic)	1	1
B	In-Ground Footing Pipe: 400mm x 25.4mm	2	2
C	Door Retaining Bracket: 304 grade	2	2
D	U Bracket: 304 grade	4	4
E	Right Angle Bracket: 316 grade	4	6
F	L Bracket: 304 grade	2	2
G	T Bracket: 304 grade	2	2
HA	Single Door Kit - Doorway Header Tube: 922mm x 32mm Aluminium Square Tube	1	N/A
HB	Double Door Kit - Doorway Header Tube: 1925mm x 32mm Aluminium Square Tube	N/A	1
I	Door Track End/Hoop Bracket 260mm 304 grade	1	N/A
J	Vertical Doorway Tube: 2500mm x 32mm Aluminium Square Tube	2	2
KA	Single Door Kit - Base Tube: 1925mm x 32mm Aluminium Square Tube	2	N/A
KB	Double Door Kit - Base Tube: 1425mm x 32mm Aluminium Square Tube	N/A	2
L	⅜" Hex Head Self Driving Metal Screws: 12g x 20mm	150	150
M	⅜ Driver for 12g Hex Head Screws	1	1
N	*Short Bolts: Cut-off 12g Self-driving Hex Head Screws	9	2
O	Locking Channel 11.5mm depth x 2m	9	15
P	Locking Channel 13.5mm depth (double wire) x 2m for Cross-Bracing/End Hoop Options	2-6	2-6
Q	Innox Drill Bit x 3mm	1	1
R	Wiggle Wire 2.1m	12-16	16-20
S	Greenhouse Film x 5m: Opt 1. Not Supplied, Opt 2. Supplied	1	1
TA	Door Track w/ flat brackets: 2000mm Double Door Kit	N/A	2
TB1	- Door Track w/ holes for flat brackets: 2000mm - Single Door Kit	1	N/A
TB2	- Flat Brackets for Door Track - Single Door Kit	3	N/A
TB3	- *Short Bolts - Single Door Kit	6	N/A

Component List Cont.

ActiveVista Sliding Door End Wall Kits Include:

Label	Description	Single Door Kit Qty	Double Door Kit Qty
U	Door Frame: 2m x 1m galvanised	1	2
V	Door Track Sliders (Glidewheels)	2	4
W	Door Handle: galvanised	1	4
X	Door Drop Bolt: 300mm galvanised with 2 x (12g x 30mm self-driving screws)	1	1
Y	D Clip - Door closure - Double Door Kit	N/A	1
Z	Bracing Cable Kit	1	1
Z1	- 3.2mm x 4m 304 Cable with 110mm M5 Turnbuckle 304 grade	2	2
Z2	- Welded Eye Bolt: M6 x 55mm, 304 grade	2	2
Z3	- Brace Band: 32mm galvanised w/ nut and bolt	2	2
Z4	- Short Bolt	2	2
Z5	- Cable Clamps: 3.2mm 304 grade	4	4

Component Reference Guide

A

B

C

D

E

F

G

HA/HB

I

J

KA/KB

L

M

N

O

P

Q

R

S

TA

Component Reference Guide

TB

U

V

W

X

Y

Z

Suggested Tools

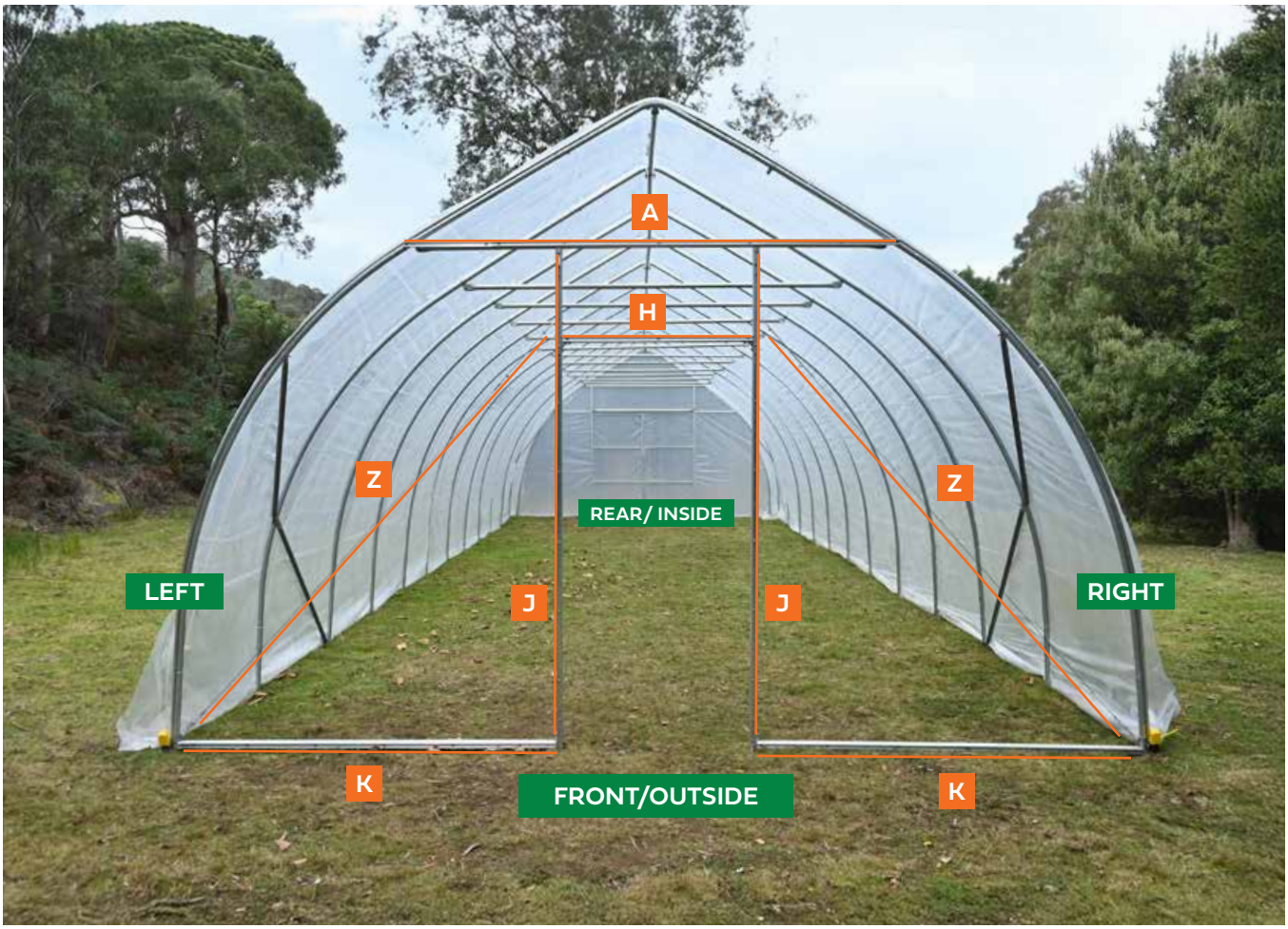
A smooth setup starts with the right prep. Make sure you've got the necessary tools sorted before you move onto the End Wall Kit assembly.

Tools Needed:

- **Safety goggles** (to be worn by each person)
- **Earmuffs** (to be worn when using cut off wheel and hammering ground posts)
- **Marker pen**
- **Step ladder** (with functional safe height to suit this construction process)
- **Tape measure**
- **String line**
- **Spirit Level** (medium to long)
- **Sledge Hammer** or **post driver**
- **18V Drill**
- **13mm spanner** (Spanner and socket set)
- **6mm spanner**
- **5mm spanner**
- **Hacksaw** or **angle grinder** with cut-off wheel
- **Side cutters**
- **Pliers** or **spanners** (for splaying open brace bands)
- **Self adapted plumb bob** (e.g. screw driver with a hole on the top of handle or similar)
- **Scissors** or **Knife**
- **Clamp**

Overview

This guide covers both the Single and Double Sliding Door End Wall variants. Steps 1 through 10 apply to both.



Step 1 - Retrofit Cross-Bracing Pole

For Tunnels without Cross-Bracing on End Hoop.

Step 1A

Position each of the **Brace Bands (A2)** on the end hoop at 2500mm above ground level. First pry open two Brace Bands enough to push over the hoop tube.

Find the nearest break in the locking channel and undo wiggle wire to expose the 12g screw heads.

Then remove the screws and lift the channel approximately 1-2cm.

Place one of the brace bands onto either side of the hoop at the approximate height ensuring 3mm screw hole on Brace Band is facing inwards for securing with **12g Screw (L)** to hoop.

Step 1B

Attach the **Brace Bands (A1)** to the ends of the **Cross-Bracing Pole (A2)**.

Step 1C

Ensure the **Cross-Bracing Pole (A2)** is level.

Step 1D

Tighten the **Brace Bands (B2/3)** and apply 12g screws to 3mm hole on inside position of Brace Band. Reapply the 12g screws to the locking channel and re-secure film with wiggle wire.

Step 2 - Plumb End Wall Position

Step 2A

Stretch string line between **outer** point of end hoop base and secure.

Step 2B

Attach string line with plum bob to centre purlin and lower across front of Cross-Bracing pole to ground level to align horizontal and vertical strings.

Step 2C *(Skip Step 2C if not required)*

If more than 15mm adjustment is required for plumb bob position; release film on end hoop either; Loosen wind bracing clamps and adjust end hoop position on centre purlin. Or if needed, the hoop's base position can also be moved.

Align string lines and re-secure wind bracing and film.

Step 2D

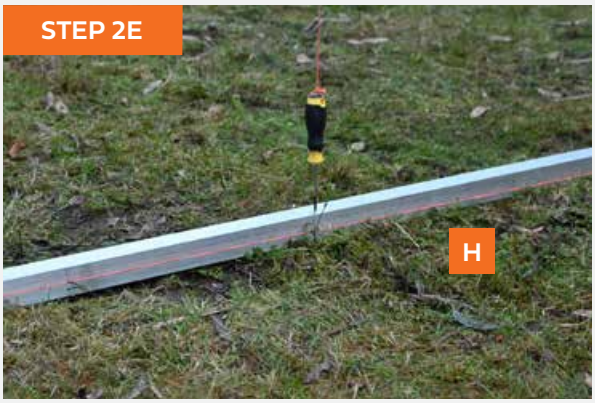
Measure and mark the midway point on your **Doorway Header Tube (H)**.

Step 2E

Place **Doorway Header Tube (H)** on ground behind string line ***(inner side)*** and align midway point with plumb bob.

Step 2F

Position **Round Footing Tubes (B)** directly at either end of Doorway Header Tube and insert into soil **leaving 80mm above ground level**. If you hit a rock you may need to shorten the tube.



Step 3 - Build Vertical Doorway Tubes

Step 3A - Check Vertical Doorway Tube Height

Position 2500mm **Vertical Doorway Tubes (J)** over **Footings (B)** with 6mm holes in the upward position facing tunnel sides, with the tops positioned under the cross-bracing pole. Pole can be slightly raised by hand.

If required, shorten 2500mm tubes by cutting from the top only, to fit just below the Cross-Bracing Pole.

Now remove pole for Step 3B.

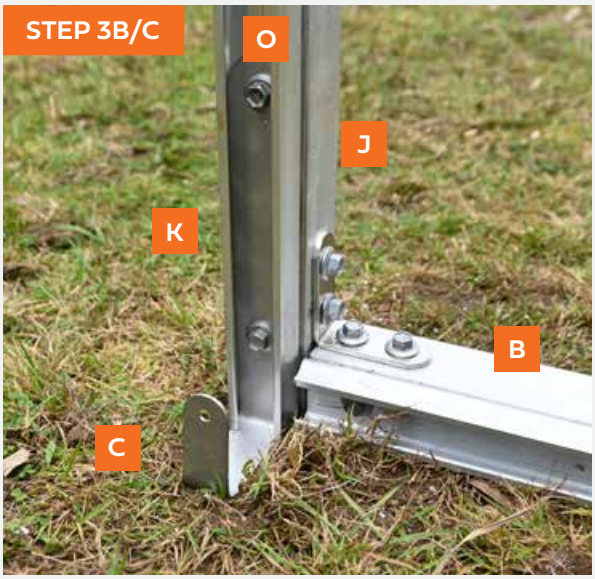
Step 3B

Attatch **Locking Channel (O)** onto the **Vertical Doorway Tubes (J)** using **12g Screws (L)** starting 30cm from the end. Continue every 35-45cm to the end of the Locking Channel.

Step 3C

Slide **Door Retaining Bracket (C)** into the **Locking Channel (O)** of each of the **Vertical Doorway Tubes (J)** so that the shorter end is **facing outwards** ***(See position in image)***, secure with **12g Screws (L)**.

Note: Image 'STEP 3B/C' shows parts O, K, C and J already in position. Assemble on the ground first.



Step 3D

Measure remaining space on the **Vertical Doorway Tubes (J)** and cut a piece of **Locking Channel (O)** to fit each, we suggest using a hacksaw or cut-off disc and attach using the **12g Screws (L)** leaving out the end screw as with the first end.

Step 3E

Place **Vertical Doorway Tubes (J)** over **Footing Tubes (B)**, ensuring that **Locking Channel (O) faces outwards** and **Door Retaining Bracket (C)** is facing outward at ground position.

Step 3F

Position the top of **Vertical Doorway Tubes (J)** under the Cross-Bracing pole and add **U Bracket (D)** by sliding it into the **Locking Channel (O)** and over the Cross-Bracing pole to the **inner position** of the vertical doorway pole *(See Step 3E,F,G,H Images).*

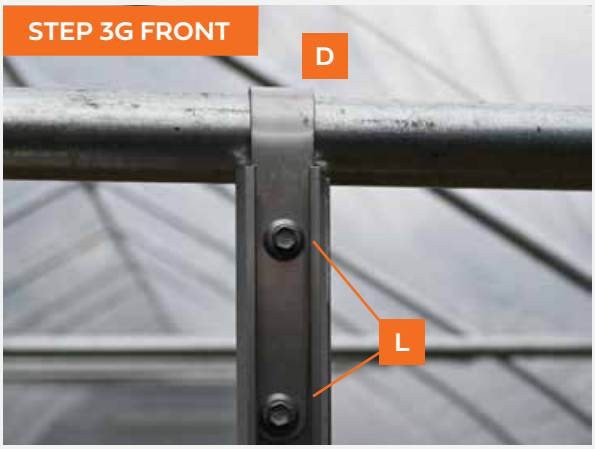
Step 3G

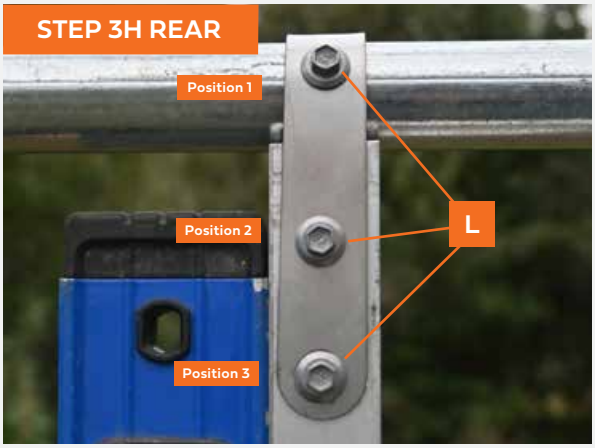
Attach **U Brackets (D)** first to the front with **2 x 12g Screws (L)**, ensuring a strong bond through the Locking Channel and **Vertical Doorway Tubes (J)**.

Step 3H

Level **Vertical Doorway Tubes (J)** and secure **U Brackets (D),** in three positions with 12g screws, 1 directly to the Cross-Bracing to ensure level position.

Then 2 and 3 to the rear of the **Vertical Doorway Tubes (J)**.





Step 4 - Attach Locking Channel to Cross-Bracing Pole

Step 4A

Attach **Double Wire Locking Channel (P)** to Cross-Bracing Pole (this will allow for Apex position shade ventilation option).

Note: Step 4 has the same application for Single and Double Sliding Door End Wall options.

Ensure Channel extends to hoop at both ends of Cross-Bracing Pole (A). ***(See Step 4A Image).***

5 - Prepare Hoop Base, Base Tube & Bracing Cable

Step 5A

Add upper **Brace Band (Z3)** to each side of hoop base using the same process as in Step 1A - *(See Step 5D - attach with *Short Bolt method).*

Note: If Star-Lock anchor plate is in use, remove bolt holding Brace Band and raise, ***(see image Step 5A)*** to allow second Brace Band and U Bracket to be fitted.

Step 5B

Slide **U Bracket (D)** into position around the base of the hoop, add **Bracing Cable Brace Band (Z3)**, then re-secure Star-Lock Brace Band *(See image Step 5A/B).*

Step 5C

Secure **inner position** of **U Bracket (D)** with **Short Bolt (Z4)** to hoop using **Short Bolt Method.*

Step 5D

Position upper **Brace Band (Z3)** to face **Vertical Doorway Tubes (J).** Secure inner position of **Bracing Cable Brace Band (Z3)** to hoop with **Short Bolt (Z4)** using **Short Bolt Method.*

Secure **inner position** of upper **Brace Band (BC3)** to hoop using **Short Bolt Method*

See Page 30 for Short Bold Method explanation

6 - Attach Base Tube to Hoop

Step 6A

Place **Base Tube (K)** between hoop base to **Vertical Doorway Tubes (J)** (shorten if required).

Step 6B

Attach **Locking Channel (O)** to the **Base Tubes (K)** *(as per Step 3B)*.

Step 6C

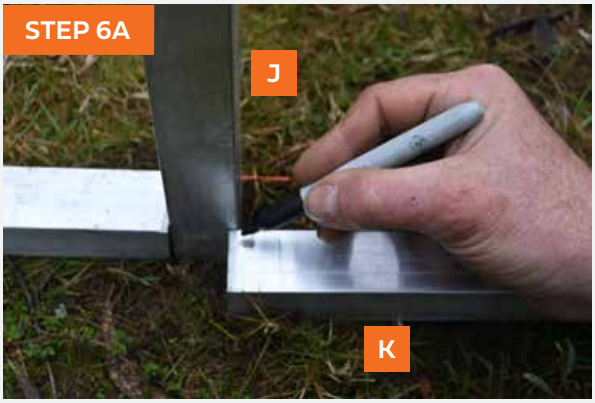
Slide **Base Tubes (K)** with **Locking Channel (O)** facing **outwards** into position, ensuring **U Bracket (D)** is now inserted into the Locking Channel.

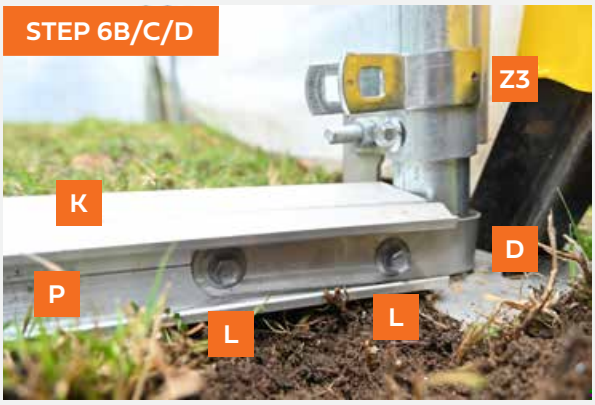
Step 6D

Secure **U Bracket (D)** with 2 x **12g Screws (L)** through the **Locking Channel (O)** and **Base Tubes (K)**.

Step 6E

Secure **U Bracket (D)** to inside of base tube with **12g Screw (L)**.





7 - Attach Base Tube to Vertical Door Tube

Step 7A

Position **Right Angle Bracket (E)** on top of base poles and against **Vertical Doorway Tubes (J).**

Step 7B

Attach **Right Angle Bracket (E)** to base tubes with **12g Screws (L)** ensuring the bracket remains central and flush with both surfaces.

Step 7C

Before attaching to the **Vertical Doorway Tubes (J)** attach **L Bracket (F)** to the inside of the base tubes and vertical doorway tubes with the **12g Screws (L)** ensuring the two edges are level and snug fitting.

Step 7D

Finish attaching **Right Angle Brackets (E)**.

8 - Doorway Header Tube

Step 8A

Attach **Locking Channel (O)** to **Doorway Header Tube (O)** adding a **12g Screw (L)** every 40-50cm, cut off excess.

Note: Position of Locking Channel must not extend below the bottom edge of the header tube ***(See Steps 11 and 12)***.

Step 8B

Place the **Doorway Header Tube (H)** on the ground between the two **Vertical Doorway Tubes (J)** with the locking channel **facing outwards. Even out any gap** evenly between both sides.

Step 8C

Attach **Right Angle Bracket (E)** against **Doorway Header Tube (H)** and top edge of header tube. Centre bracket and secure with **12g Screw (L)** to header tube only, do not repeat at other end of header tube.

Step 8D

Mark height position for **Doorway Header Tube (H)** on inside edge of **Vertical Doorway Tube (J)** at 2045mm above the base of Vertical Doorway Tube. The Doorway Header Tube will sit above this mark.

Step 8E

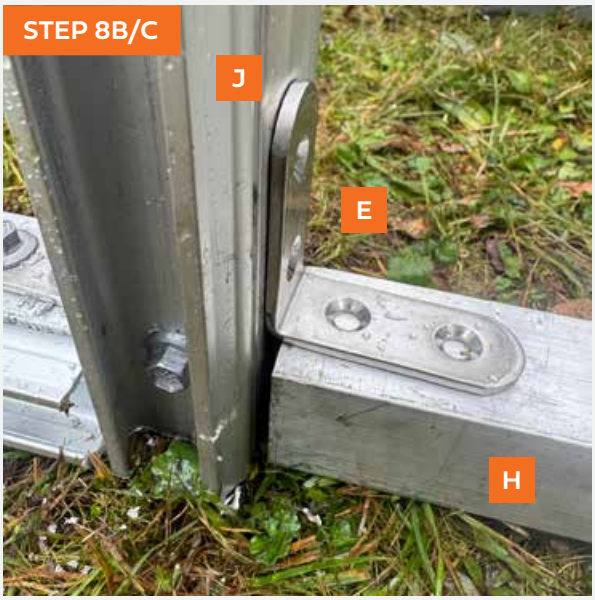
Raise the **Doorway Header Tube (H)** into position with the **Right Angle Bracket (E)** situated underneath and **Locking Channel (O)** on the front face of the Header Tube.

Attach the **Right Angle Bracket (E)** to the **Vertical Doorway Tube (J)** using the **12g screws (L)** on one side only, use a clamp or friend to hold the other side in position.

Level Doorway Header Tube before attaching other side to the Vertical Doorway Tube with the Right Angle Bracket. ***(See image Step 8E).***

Step 8F

Attach **T Bracket (G)** to rear position of **Doorway Header Tube (H)** and **Vertical Doorway Tubes (J).**



9 - Attaching Bracing Cable Kits

Step 9A

Insert **Eye Bolts (Z2)** into the 6mm hole above the header tube on the **Vertical Doorway Tube (J)**.

Ensure the eye is positioned toward the side of tunnel. Add the large washer to the Doorway Header side and secure.

Step 9B

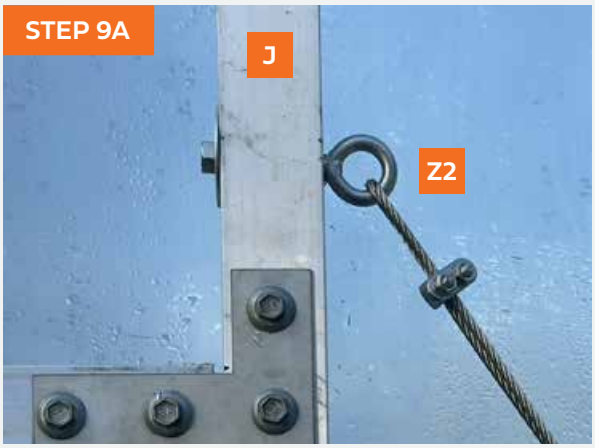
Attach **Turnbuckle Eyelet (Z1)** to **Brace Band Bolt (Z3)**. Fully extend Turnbuckle.

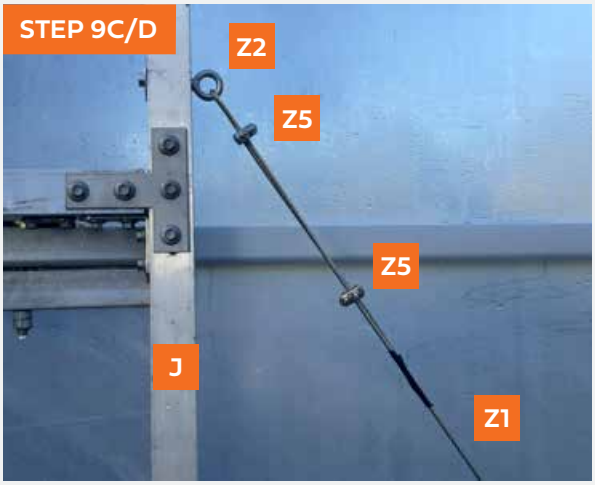
Step 9C

Secure the **Cable (Z1)** to the **Eye Bolt (Z2)** with the **2 x Cable Clamps (Z5)**. First slide Cable through both Cable Clamps, then pass the Cable through the Eye bolt eye and back through the Cable clamps.

Step 9D

Secure the Clamp closest to the **Eye Bolt (Z2)** eye within 3-4cm of eye then secure the remaining Clamp 10-15cm back and cut off excess cable. Tighten turnbuckle manually.





10 - End Wall Greenhouse Film

(plus shade cloth ventilation option)

See Special Notes Page 30 before cutting film

Note: Always wear closed side safety goggles when applying or cutting wiggle wire or in the vicinity of its application.

Step 10A

Open out the **End Wall Film (S)** in front of the tunnel, and make sure that any markings (numbers or print) are readable from above as this is the inside (non U.V) surface and ensure that the factory folds are positioned vertically (this will assist with alignment).

Note: Film for door/s will require a minimum strip width of 1100mm x 2100mm each. Consider if this can be sourced from the side of the sheet or the base.

Step 10B

Place a ladder on the outside of the film so that you can lift the centre of the film and connect at the tunnel peak ***(Position 1)*** with a small length of **Wiggle Wire (R)**, e.g. 30cm.

Step 10C

Position **Film (S)** at the base of hoop ***(position 2)***, checking film position by using the vertical lines in the film as cues, secure film on side of hoop near base by using 30cm of **Wiggle Wire (R).**

Now move across to the opposite tunnel side ***(position 3)***. and pull the film taught at the base, lifting or lowering the film until it is level.

Start applying the **Wiggle Wire (R)** from the bottom of the **Locking Channel (O),** ****SEE NOTE BELOW.***

Keep film slightly (but not overly) taught as the wire is attached to the channel.

Work your way up towards the top of the channel, remove temporary wire at top of tunnel and continue down other side. Cut any remaining wire with side cutters or similar.
(See Step 10B Image).

Note: Make sure that any underlying film is not doubled into the channel

Step 10D

Apply **Wiggle Wire (R)** to the cross-bracing pole, both **Vertical Doorway Poles (J)**, doorway header pole and lastly, base poles **in that order to avoid over tensioning**, cutting off any extra wire ***(See Step 10D Image).***

Note: Ensure wiggle wire ends are positioned in the channel, not hanging out to avoid damage with moving parts e.g. the doors.

Step 10E

Cut excess film from entire outer edge of tunnel with a sharp knife or scissors, being careful not to cut main tunnel film leaving 1-3cm of excess film, more may be left at the base if needed.

When cutting inner doorway void leave a smaller margin e.g. 0.5-1cm ***(See Step 10E Image).***

Step 10F

Shade Cloth for Ventilation can replace film in the top section above the Cross-Bracing pole. Two layers of material and wiggle wire will fit in the Cross-Bracing pole locking channel.

To attach:

1. Undo **Wiggle Wire (R)** from tunnel peak to point of cross-bracing pole join, leave film attached to Cross-Bracing locking channel.
2. Cut **Film (S)** from above Cross-Bracing locking channel.
3. Place shade cloth over area as per Step 10B ensuring enough length to secure into Cross-Bracing locking channel, re-secure peak of tunnel with **Wiggle Wire (R)**.
4. Add 2nd wiggle wire layer to Cross-Bracing locking channel.
5. Trim excess.

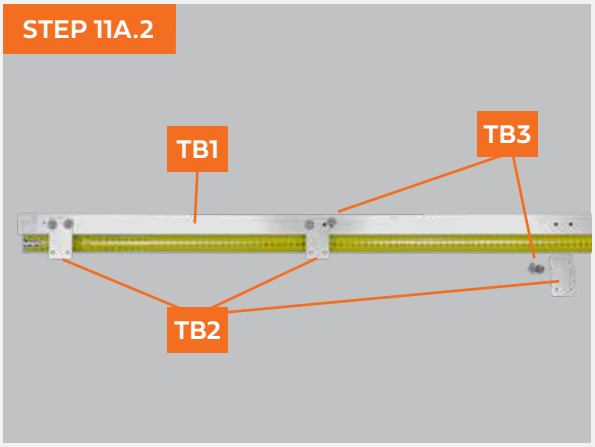
11 - Fit Single Door Track to End Wall

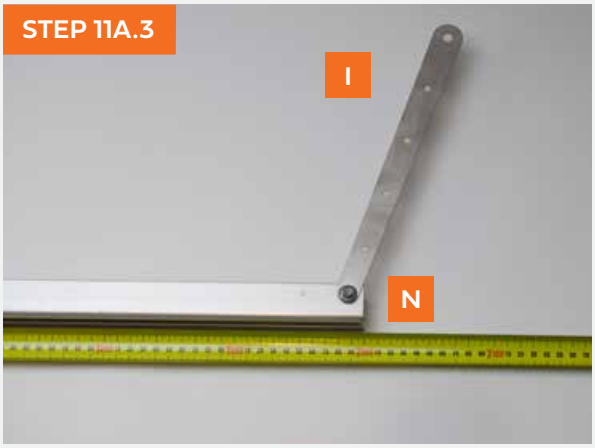
Here are steps to attach the Single Door Track to the Doorway Header Tube and Hoop.

Note: Both Single and Double Sliding Door Track options attach to the underside of the Door Header Tube

Step 11A - Prepare Door Track

1. Decide on direction of opening.
2. Attach brackets with the **Short Bolts (N)** to the 2m Door Track holes on the required side.
3. Connect **Door Track End/Hoop Bracket (I)** to inside edge of door track (end wall side) using a **Short Bolt (N)**, 1cm from end of Door Track ***(See image 11.A3).***





Step 11B - Attach Door Track

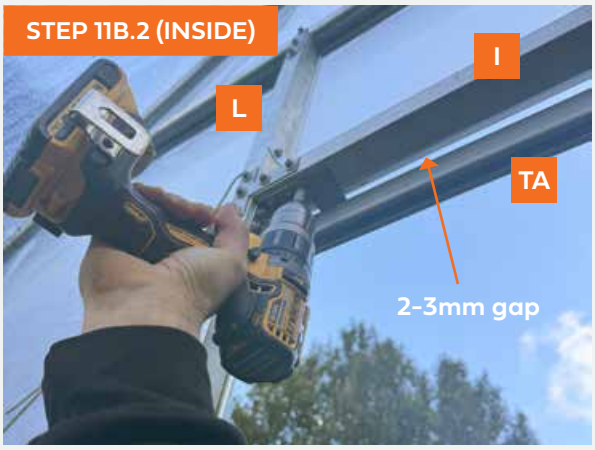
1. Position doorway end of **Door Track (TA)** adjacent to inside of Vertical Doorway Tube. The first Flat Bracket will be adjacent to the **Right Angle Bracket (E)**. *(See image 11B.1 (Outside)).*

2. Attach the first Flat Bracket to the underside of the Doorway Header with a single **12g screw (L)** leaving a gap of 2-3mm between the Door Track and the Locking Channel. *(See image 11B.2 (Inside)).*

3. Attach **Door Track End/Hoop Bracket (I)** to the Hoop. *(See image 11B.3).*

   Level the Door Track and mark the position on the hoop, pre-drill hoop and then recheck level before attaching **Door Track End/Hoop Bracket (I)** to the Door Track.

4. Attach the remaining Flat Brackets to the underside of the **Doorway Header Tube (H)** with 5 x **12g Screws (L)**.



12 - Fitting Double Door Tracks to End Wall

Step 12A

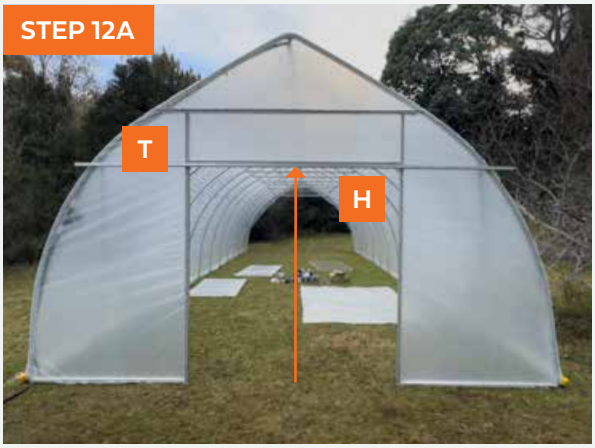
Measure and mark the midway point on your **Doorway Header Tube (H)**.

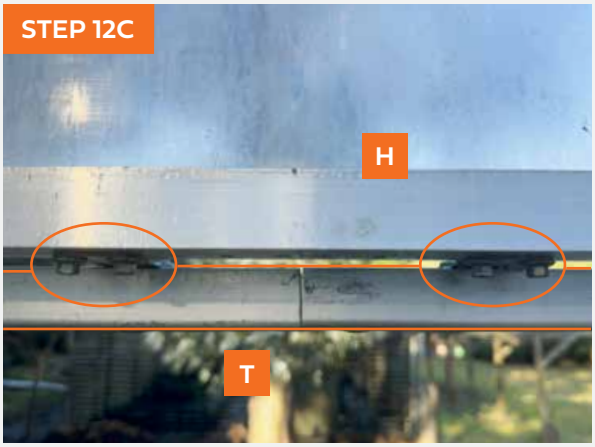
Step 12B

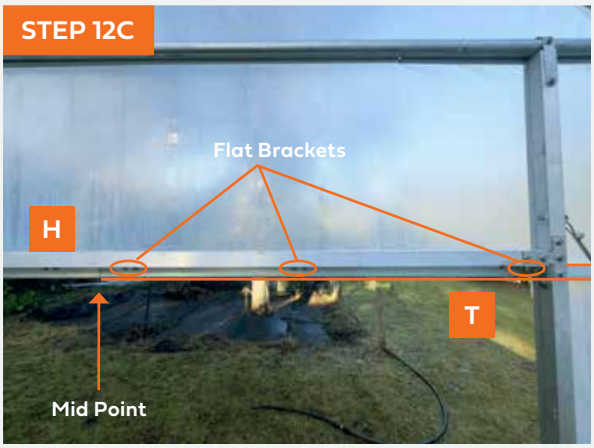
Position the first **Door Track (T)** so that the flat track brackets are sitting under the **Doorway Header Tube (H)**. The inner end of the Door Track will be at the half-way mark on the underside of the Doorway Header.

Step 12C

1. Move the **Door Track (T)** about 2-3mm forward of the **Locking Channel (P)** and using a single 12g screw, attach most inner hole of the first **Flat Brackets (H)** to the underside of the Doorway Header Tube.
2. Secure the remaining Door Track Flat Brackets with the **12g Screws (L)**.
3. Repeat process with second Door Track.







Step 12D

To secure the end of **Door Track (T)** to hoop position using **Right Angle Bracket (E)**.

1. Place level on **Door Track (T)** and position **Right Angle Bracket (E)** on top of door track where face of hoop intersects.
2. Mark spot for single hole in hoop and pre-drill using 3mm drill bit.

   Note: this may be through the brace band.
3. Re-check level and fasten bracket to hoop with **12g Screw (L).**
4. Fasten **Right Angle Bracket (E)** to door track with ***Short Bolt Method*** using both holes in bracket.
5. Repeat process on other Door Track.

See Page 30 for Short Bold Method explanation

13 - Door Fit-Out

Single and Double Sliding Door Variants

Step 13A

Attach **Door Track Sliders (V)** to the top of each door. Secure slider into the pre-drilled holes by inserting the 70mm galvanised bolt from the top of the door frame and applying both nuts onto the base of each bolt.

Step 13B

Add **Locking Channel (P)** to the outward face of the door frame, first apply a 2m length of Locking Channel to each of the front facing sides by placing a **12g screw (L)** every 40cm.

Step 13C

Cut **Locking Channel (P)** to fit the 3 remaining horizontal **Door Frame Sections (U)** and secure with 3 x **12g screw (L)** in each section.

Step 13D

Cut a minimum of 1.1m strip of the **Greenhouse Film (S)**, cut 2 x minimum 2.1m lengths.

See Page 30 before cutting greenhouse film

Step 13E

Ensuring that the inside of the **Greenhouse Film (S)** is facing **downwards** attach the film using the **Wiggle Wire (R)**.

Apply **Wiggle Wire (R)** to the 2m sides first, cut off any extra wire with side cutters or a cut-off wheel.

The preferred place to cut wiggle wire is on the section that sits flat in the channel to avoid points cutting into the film.

Note: looseness of film at this time is okay, the film will tighten when the inner sections are secured.

Step 13F

Apply **Wiggle Wire (R)** to the inner sections starting from the centre and moving outwards and cutting excess as before.

Step 13G

Check for any looseness and if required loosen and retention section of wire.

Step 13H

Cut off excess film, you may choose to leave a small amount of edging or cut to the edge of the locking channel.

Step 13I

Repeat process with second **Door Frame (U)**.

Note: Door Handles and Drop Bolt are added after fitting door to Door Track.

14 - Fitting Doors to Door Track

Step 14A

Lift Door/s onto **Door Track (T)** and move to the centre. Guide door across **Door Retaining Bracket (C)** to central 'closed' position.

Single Door End Wall - Door will be held at base by both Door Retainer Brackets when closed and one when fully open.

Double Door End Wall - Each door will be held at base by the one Door Retainer Bracket when closed and when fully open.

After fitting door to track, if needed adjust bolts upwards, ensuring ease of movement, tightening the lower one to lock in place.

Doors for both options are limited from over-extension by positioning a 12g screw in each door track at both ends so that the door base remains positioned behind the Door Retaining Brackets at all times.

Note: The Flat Bracket hole positions may be used for the closed door limiting bolt position if they are placed accordingly.

Step 14B.1 - Limit Door Movement - Single Door

1. Place **12g screw (L)** between 55mm and 70mm back from doorway opening end of **Door Track (T)**. Door must be able to close across front of **Vertical Doorway Tube (J)**.

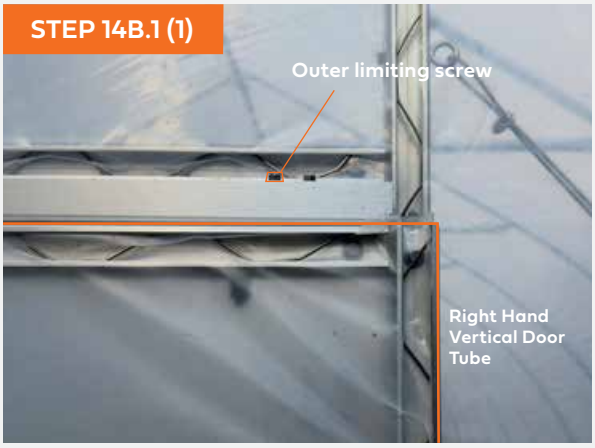
   Ensure that your door closes no further than past the front of the Vertical Doorway Tube. If so place a **12g screw (L)** either through top or front side to act as a limiter.

2. Outer limiting screw position may vary slightly on build. Place a **12g screw (L)** on outer side of Slider position so that when open, Door remains behind Door Retaining Bracket.

Step 14B.2 - Limit Door Movement - Double Door

1. Place **12g screw (L)** 55mm-70mm back from central Door Track join to stop door moving past midway and to maintain position with Door Retaining Bracket.

2. Open doors and ensure base of door remains behind Doorway Retaining Bracket Outer limiting screw position may vary slightly on build. Place **12g screw (L)** on outer side of Slider position so that when open, Door remains behind Door Retaining Bracket.



Step 14C

Place outside **Door Handle/s (W)** at required height, midway or above, in the Locking Channel using 2 x **12g screws (L)**.

Single Door End Wall - No internal door handle is needed as this would reduce door opening width.

Double Door End Wall - Place internal door handles on each door where doors meet. Offset position from outer door handles to avoid screws colliding ***(See image Step 14C).***

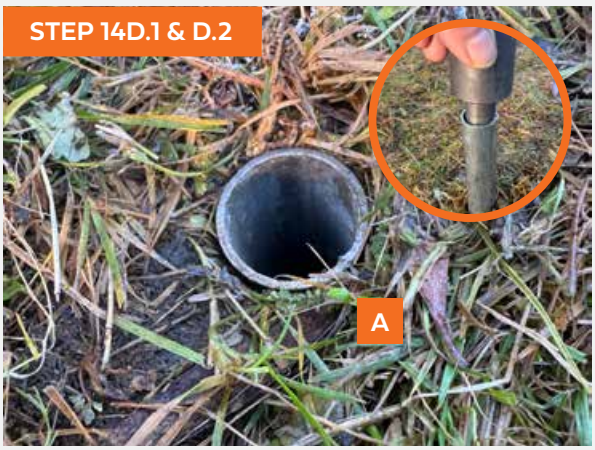
Step 14D - Fitting Drop Bolt

1. **Single Door option:** Position **Drop Bolt (X)** on outside of door at the 'opened-hoop end' of door frame.
    i. Move door to open position.
    ii. Place **Drop Bolt (X)** bracket above position of Door Retaining Bracket and attach with the 2 x 30mm Screws through the Locking Channel and Door Frame. ***(See image STEP 14D.1).***
    iii. Make an impression in the soil with the Drop Bolt directly in front of the Door Retaining Bracket.
    iv. Insert **Round Footing Tube (A)** with hammer to ground level. ***(See image; STEP 14D.1 & D.2).***
2. **Double Door option:** Position **Drop Bolt (X)** on inside of door where doors meet. Make impression in the soil with bolt and then insert **Round Footing Tube (A)** with hammer to ground level.

Step 14E - Double Door - Door Closure Clip

Note: When tunnel is not attended the D Clip will reinforce the lower section of the door without Drop Bolt from wind affects. The D Clip must be used in conjunction with the Drop Bolt to avoid wind stress.

Place the **D Clip - Door closure - Double Door Kit (Y)** through the outside door handles to secure both doors.



Special Attention

1. Ground level requirements for proper fitting of end walls.

In order for the sliding doors to operate with level spacing underneath, the ground between the left and right hoop base must be level. In this scenario the aluminium **Door Header Tube (HA/HB)** should be set at ***2045mm from the base*** of the **Vertical Doorway Tube (J)**. This will provide a 10-15mm gap depending on how you have set your track sliders.

*If the soil level inclines upwards between the vertical doorway tube and the hoop base (e.g. the base tube position) then the door may bottom out on the soil when opened. In this scenario the header tube height would need to be adjusted upwards by the amount of angular incline of the base pole (e.g. the difference in height between the doorway tube and the hoop base at the Star-Lock position).

2. Short Bolt Method.

Used where space inside hoop or door track is limited.

1. Drill hole through **Brace Band (A1)** and hoop wall or door track with **12g self driving screw (L)**
2. Remove **12g screw (L)** and apply **12g Short Bolt (N).**

3. Before Cutting Greenhouse film. Option 1, Purchased with a Caterpillar tunnel

Before cutting **Greenhouse film (S)** check for the mark showing the side facing ***inwards***.
Make a mark using a marker pen on the section that you will remove from the main film.

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